



The Void

TASKING AUTHORITY	OWNER	MISSIONS	CATEG	RADIUS	WT	SPEED	FUEL	PAYLOADS	ATO?	SHIPBRD?	FO
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TIER 3

MAGTF CMDR &
COLLECTION
MANAGER

VMU

RSTA

FW

200KM

450

85

AV
GAS/
JP

EO, IR,
LRF

YES

YES

HMMWVs
With TRLR
and Launcher

TIER 2

MEU &
REG CMDR

VMU?

RSTA,
TGT ACQ
&
COMM
RELAY

RW

85KM

310

85

JP-5/8

EO, IR,
LRF &
WIDE BND
COMM
RELAY

YES

YES

HMMWV &
TRLR

TIER 1

BN & CO CMDR

BN

RS

FW

10KM

5.5

35

BTRY

EO, LL

NO

NO

MANPACK



Back Ups



Tier 1

DRAGON EYE SMALL UAV



Project Officer: **Brent J. Azzarelli**



Specifications

- Back-packable system
- 5.5 lb air vehicle w/electric propulsion
- 10 lb Ground control station
- Fully autonomous flight capability
- 45+ min flight endurance
- 5-10 km link range
- Interchangeable, modular 1 lb

Plans & Status

- Based on the SURSS requirement
- Conducted first fully autonomous flight Feb 01
- Two contactors deliver 40 Dragon Eyes May/Oct 02
- CAX, MOUT, MC02 testing - Summer 02
- Extended User Assessment - Winter 02
- Operational Assessment - Spring 03
- Down select, prime contract award Spring 03
- Initial Operational Capability (IOC) Summer 03
- Continue Product Improvement FY03

payloads: Schedu

EO daylight color EO low light
B/W, IR



Funding Expenditure:

- FY01 \$3.0 M
- FY02 \$2.7 M
- FY03 \$1.5 M

Extended User Assessm

Operational Assessm

Transition to MC

Down Select



Tier II ? - Dragon Warrior?





Dragon Warrior VTOL UAV

Project Officer: Brent J. Azzarelli



Specifications

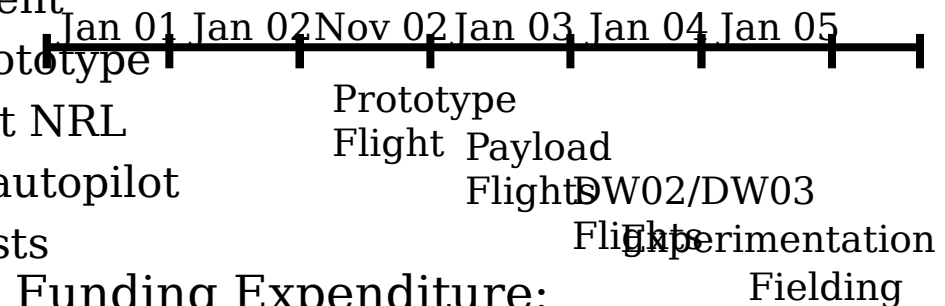


- Shipboard compatible VTOL UAV
- Payloads: RSTA and wide-band comm relay
- Division/Regimental/MEU asset
- Fully autonomous flight capability
- 3-5 hour flight endurance
- 50 nm link range
- Transportable in a single HMMWV & Trailer

Plans & Status

Schedule

- Based on the Close Range UAV requirement
- Completed flight test of 50% scale RC prototype
- Currently fabricating full scale systems at NRL
- Conducting digital flight simulations for autopilot
- Conducting wind tunnel performance/ tests
- Full scale prototype first flight Nov 02
- Payload developmental flight tests Feb 03
- MEF Experiment (Olympic Challenge) Sept 04
- Transition to NAVAIR/MCSC late FY05



Funding Expenditure:

- FY01 \$3.4 M
- FY02 \$8.3 M
- FY03 \$10.2 M



Ground Control Station





Dragon Warrior VTOL Tactical UAV





Ground Control Station

